

1 **ABSTRACT OF THE DISCLOSURE**

2 A method and an apparatus for switching channel connection between multiple
3 optical channels synchronously and automatically. The apparatus employs an optical
4 switch to interface among a plurality of optical channels, and an optical power meter to
5 monitor data transmission over the plurality of optical channels by measuring the optical
6 power level of optical signals over the channel. When signal transmission is detected
7 over a specific optical channel, the optical switch is locked to the specific optical
8 channel allowing data signals over the specific optical channel to be transmitted to a
9 specific device or another optical channel through the optical switch. When no optical
10 signal is detected over the channel, said optical switch will be switched to another
11 optical channel, such that signal monitoring and switching channels among a plurality of
12 optical channels is able to be performed synchronously and automatically.